

IN THE CLAIMS

Please amend claims 1, 4, 6, 8, 9, 10, 15, 16 and 19 and cancel claims 3, 5, 11, 13, 17 and 18 as follows:

1. (Currently Amended): A method for obtaining data in a computer system, comprising:

inputting first and second identifier values associated with the first and second sensors, respectively, using an input device operably coupled to a first computer;

sending a first data request message having the first identifier value from the first computer to a second computer to retrieve a first plurality of data sample values previously stored in the second computer, the first plurality of data sample values based on a first signal generated by a first sensor from a first predetermined time to a second predetermined time;

sending the first plurality of data sample values from the second computer to the first computer in response to the first data request message;

sending a second data request message having the second identifier value from the first computer to the second computer to retrieve a second plurality of data sample values previously stored in the second computer, the second plurality of data sample values based on a second signal generated by a second sensor from a third predetermined time to a fourth predetermined time;

sending the second plurality of data sample values from the second computer to the first computer in response to the second data request message;

~~receiving a first plurality of data sample values based on a first signal generated by a first sensor from a first predetermined time to a second predetermined time;~~

~~receiving a second plurality of data sample values based on a second signal generated by a second sensor from a third predetermined time to a fourth predetermined time; and,~~

determining a time difference between the first predetermined time and the third predetermined time; and

storing both the first plurality of data sample values and the second plurality of data sample values in a first memory of the first computer when a the time difference between the first predetermined time and the third predetermined time is less than a predetermined time threshold value.

2. (Currently Amended): The method of claim 1 further comprising displaying both the first plurality of data sample values and the second plurality of data sample values on a computer monitor associated with a the first computer when the time difference between the first predetermined time and the third predetermined time is less than the predetermined time threshold value.

3. (Cancelled).

4. (Currently Amended): The method of claim 1 further comprising inputting the predetermined time threshold value using the input device operably coupled to the a first computer.

5. (Cancelled).

6. (Currently Amended): The method of claim 1 further comprising displaying the first and second plurality of data sample values in first and second graphical plots, respectively, on a computer monitor operably coupled to the first computer.

7. (Original): The method of claim 6 further comprising:
assigning a first time stamp value to the first plurality of data sample values, the first time stamp value corresponding to the first predetermined time; and,
assigning a second time stamp value to the second plurality of data sample values, the second time stamp value corresponding to the second predetermined time.

8. (Currently Amended): The method of claim 7 wherein displaying the first and second plurality of data sample values comprises:

determining the time difference value by subtracting the first time stamp value from the second time stamp value;

generating a the first graphical plot of the first plurality of data sample values on the computer monitor if the time difference value is less than the predetermined time threshold value; and,

generating a the second graphical plot of the second plurality of data sample values on the computer monitor if the time difference value is less than the predetermined time threshold value.

9. (Currently Amended): The method of claim 1 further comprising:

sending a third data request message having the first identifier value from the first computer to the second computer to retrieve a third plurality of data sample values previously stored in the second computer, the third plurality of data sample values based on the first signal generated by the first sensor from a fifth predetermined time to a sixth predetermined time;

sending the third plurality of data sample values from the second computer to the first computer in response to the third data request message;

sending a fourth data request message having the second identifier value from the first computer to the second computer to retrieve a fourth plurality of data sample values previously stored in the second computer, the fourth plurality of data sample values based on the second signal generated by the second sensor from a seventh predetermined time to an eighth predetermined time;

sending the fourth plurality of data sample values from the second computer to the first computer in response to the fourth data request message;

~~receiving a third plurality of data sample values based on a first signal generated by the first sensor from a fifth predetermined time to a sixth predetermined time;~~

~~receiving a fourth plurality of data sample values based on a second signal generated~~

~~by the second sensor from a seventh predetermined time to an eighth predetermined time;~~
determining a time difference between the fifth predetermined time and the seventh
predetermined time; and

storing both the third plurality of data sample values and the fourth plurality of data sample values in the first memory when a the time difference between the fifth predetermined time and the sixth predetermined time is less than a the predetermined time threshold value.

10. (Currently Amended): A system for obtaining data in a computer system, comprising:

first and second computers operably communicating with one another;

the first computer configured to receive first and second identifier values associated with the first and second sensors, respectively, from an input device operably coupled to the first computer;

the first computer further configured to send a first data request message having the first identifier value to the second computer to retrieve a first plurality of data sample values previously stored in the second computer, the first plurality of data sample values based on a first signal generated by a first sensor from a first predetermined time to a second predetermined time;

the second computer configured to send the first plurality of data sample values to the first computer in response to the first data request message;

the first computer further configured to send a second data request message having the second identifier value to the second computer to retrieve a second plurality of data sample values previously stored in the second computer, the second plurality of data sample values based on a second signal generated by a second sensor from a third predetermined time to a fourth predetermined time;

the second computer further configured to send the second plurality of data sample values to the first computer in response to the second data request message;

the first computer further configured to determine a time difference between the first predetermined time and the third predetermined time; and

the first computer further configured to store both the first plurality of data sample

values and the second plurality of data sample values in a first memory of the first computer when the time difference between the first predetermined time and the third predetermined time is less than a predetermined time threshold value

~~the first computer configured to retrieve a first plurality of data sample values stored in the second computer, the first plurality of data sample values based on a first signal generated by a first sensor from a first predetermined time to a second predetermined time, the first computer further configured to retrieve a second plurality of data sample values stored in the second computer, the second plurality of data sample values based on a second signal generated by a second sensor from a third predetermined time to a fourth predetermined time, the first computer further configured to store both the first plurality of data sample values and the second plurality of data sample values in a first memory when a time difference between the first predetermined time and the third predetermined time is less than a predetermined time threshold value.~~

11. (Cancelled).

12. (Original): The system of claim 10 wherein the first computer is further configured to query a user of the first computer to input the predetermined time threshold value.

13. (Cancelled).

14. (Original): The system of claim 10 wherein the second computer is configured to assign a first time stamp value to the first plurality of data sample values, the first time stamp value corresponding to the first predetermined time, the second computer further configured to assign a second time stamp value to the second plurality of data sample values, the second time stamp value corresponding to the second predetermined time.

15. (Currently Amended): The system of claim 14 wherein the first computer is further configured to determine the time difference value by subtracting the first time stamp

value from the second time stamp value, the first computer further configured to ~~generating~~ generate a first graphical plot of the first plurality of data sample values on the a computer monitor if the time difference value is less than the predetermined time threshold value, the first computer further configured to generate a second graphical plot of the second plurality of data sample values on the computer monitor if the time difference value is less than the predetermined time threshold value.

16. (Currently Amended): The system of claim 10 wherein the first computer is further configured to send a third data request message having the first identifier value to the second computer to retrieve a third plurality of data sample values previously stored in the second computer, the third plurality of data sample values based on the first signal generated by the first sensor from a fifth predetermined time to a sixth predetermined time;

the second computer further configured to send the third plurality of data sample values to the first computer in response to the third data request message;

the first computer further configured to send a fourth data request message having the second identifier value to the second computer to retrieve a fourth plurality of data sample values previously stored in the second computer, the fourth plurality of data sample values based on the second signal generated by the second sensor from a seventh predetermined time to an eighth predetermined time;

the second computer further configured to send the fourth plurality of data sample values to the first computer in response to the fourth data request message;

the first computer further configured to determine a time difference between the fifth predetermined time and the seventh predetermined time; and

the first computer further configured to store both the third plurality of data sample values and the fourth plurality of data sample values in the first memory when the time difference between the fifth predetermined time and the sixth predetermined time is less than the predetermined time threshold value

~~retrieve a third plurality of data sample values stored in the second computer, the third plurality of data sample values based on a third signal generated by a first sensor from a fifth predetermined time to a sixth predetermined time, the first computer further configured to~~

~~retrieve a fourth plurality of data sample values stored in the second computer, the fourth plurality of data sample values based on a fourth signal generated by a second sensor from a seventh predetermined time to an eighth predetermined time, the first computer further configured to display both the third plurality of data sample values and the fourth plurality of data sample values on the computer monitor associated with the first computer when a time difference between the fifth predetermined time and the sixth predetermined time is less than a predetermined threshold value.~~

17. (Cancelled).

18. (Cancelled).

19. An article of manufacture, comprising:
a computer storage medium having a computer program encoded therein for obtaining data in a computer system, the computer storage medium including:

code for receiving first and second identifier values associated with the first and second sensors, respectively, from an input device operably coupled to a first computer;

code for sending a first data request message having the first identifier value from the first computer to a second computer to retrieve a first plurality of data sample values previously stored in the second computer, the first plurality of data sample values based on a first signal generated by a first sensor from a first predetermined time to a second predetermined time;

code for sending the first plurality of data sample values from the second computer to the first computer in response to the first data request message;

code for sending a second data request message having the second identifier value from the first computer to the second computer to retrieve a second plurality of data sample values previously stored in the second computer, the second plurality of data sample values based on a second signal generated by a second sensor from a third predetermined time to a fourth predetermined time;

code for sending the second plurality of data sample values from the second computer

to the first computer in response to the second data request message;

code for determining a time difference between the first predetermined time and the third predetermined time; and

~~code for receiving a first plurality of data sample values based on a first signal generated by a first sensor from a first predetermined time to a second predetermined time;~~

~~code for receiving a second plurality of data sample values based on a second signal generated by a second sensor from a third predetermined time to a fourth predetermined time;~~

~~and,~~

code for storing both the first plurality of data sample values and the second plurality of data sample values in a first memory of the first computer when a the time difference between the first predetermined time and the third predetermined time is less than a predetermined time threshold value.

20. (Original): The article of manufacture of claim 19 wherein the computer storage medium further comprises code for displaying both the first plurality of data sample values and the second plurality of data sample values on a computer monitor when the time difference between the first predetermined time and the third predetermined time is less than the predetermined time threshold value.